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मानक

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IS 4773 (2002): Rolling Bearings -- Plummer Blocks Housings
-- Boundary Dimensions [PGD 13: Bearing]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

रोलिंग बियरिंग्स — प्लमर ब्लॉक आवास — सीमा आयाम
(दूसरा पुनरीक्षण)

Indian Standard

ROLLING BEARINGS — PLUMMER BLOCK
HOUSINGS — BOUNDARY DIMENSIONS
(*Second Revision*)

ICS 21.100.20

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BUREAU OF INDIAN STANDARDS
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NATIONAL FOREWORD

This Indian Standard (Second Revision) which is identical with ISO 113 : 1994 'Rolling bearings — Plummer block housings — Boundary dimensions' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Rolling Bearings Sectional Committee and approval of the Basic and Production Engineering Division Council.

This standard was first published in 1968 and subsequently revised in 1979 to bring it in line with ISO 113 (Part 2) : 1979 and has now been revised again to align with the current ISO Standard, that is ISO 113 : 1994.

The text of the ISO Standard has been approved as suitable for publication as Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker in the International Standard while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 15 : 1981 Rolling bearings — Radial bearings — Boundary dimensions — General plan	IS 5669 : 1987 General plan of boundary dimensions for radial rolling bearings (<i>first revision</i>)	Identical

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

**ROLLING BEARINGS — PLUMMER BLOCK
HOUSINGS — BOUNDARY DIMENSIONS**

(Second Revision)

1 Scope

This International Standard specifies boundary dimensions for plummer block housings for rolling bearings, primarily intended for bearings in diameter series 2 and 3 as specified in ISO 15.

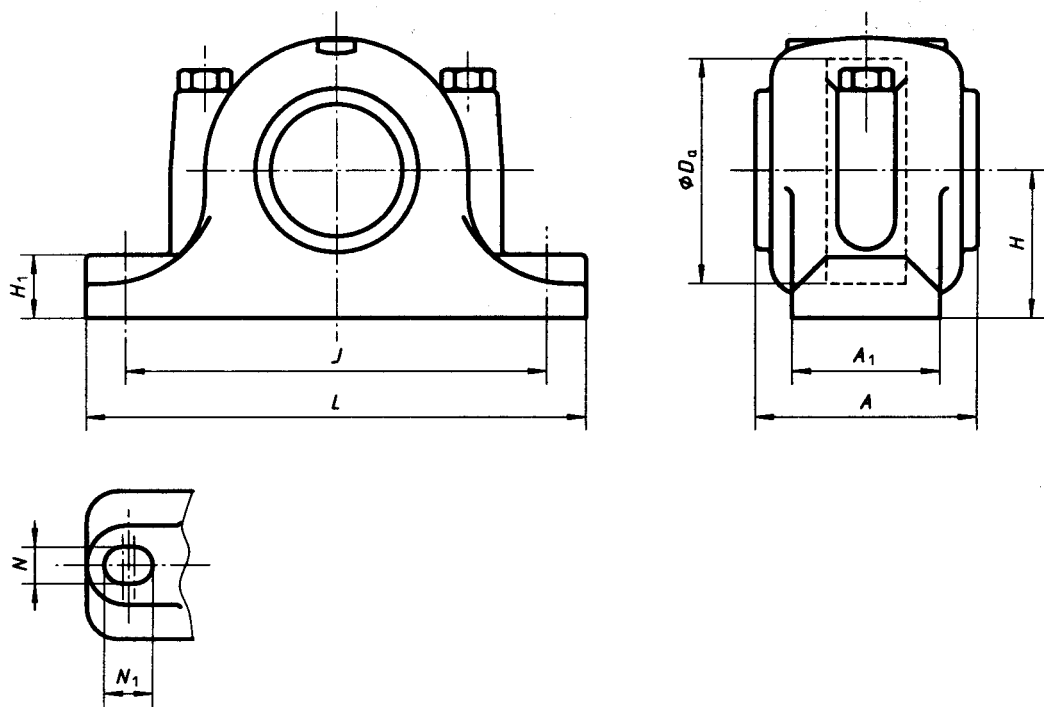
2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 15:1981, *Rolling bearings — Radial bearings — Boundary dimensions — General plan.*

3 Symbols and boundary dimensions

See figure 1 and table 1.



- D_s = housing seating diameter
 L = base length
 A = overall width
 A_1 = base width
 J = bolt hole centre distance
 H = distance from mounting face to centreline of housing seating diameter
 H_1 = feet height
 N = bolt hole width
 N_1 = bolt hole length

Figure 1 — Plummer block housing

Table 1 — Boundary dimensions

Dimensions in millimetres

D_a	H	J	N	N_1 min.	A max.	L max.	A_1	H_1 max.
52	40	130	15	15	72	170	46	22
62	50	150	15	15	82	190	52	22
72	50	150	15	15	85	190	52	22
80	60	170	15	15	92	210	60	25
85	60	170	15	15	92	210	60	25
90	60	170	15	15	100	210	60	25
100	70	210	18	18	105	270	70	28
110	70	210	18	18	115	270	70	30
120	80	230	18	18	120	290	80	30
125	80	230	18	18	120	290	80	30
130	80	230	18	18	125	290	80	30
140	95	260	22	22	135	330	90	32
150	95	260	22	22	140	330	90	32
160	100	290	22	22	145	360	100	35
170	112	290	22	22	150	360	100	35
180	112	320	26	26	165	400	110	40
200	125	350	26	26	177	420	120	45
215	140	350	26	26	187	420	120	45
230	150	380	28	28	192	450	130	50
250	150	420	35	35	207	510	150	50
270	160	450	35	35	224	540	160	60
290	170	470	35	35	237	560	160	60

NOTES

- 1 The symbols shown in figure 1 and the values given in table 1 denote nominal dimensions unless otherwise specified.
- 2 Where "max." is shown, this indicates that the value is both the nominal and the largest actual value permitted. Where "min." is shown, this indicates that the value is both the nominal and the smallest actual value permitted.

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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